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L1 (20030074225 or 5883370 or 20020035484 or 20050182656).pn.

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L8: Entry 1 of 3

File: USPT

Sep 28, 2004

DOCUMENT-IDENTIFIER: US RE38600 E

TITLE: Apparatus and methods for accessing information relating to radio television programs

Detailed Description Text (6):

With reference to FIG. 1, a broadcast transmitter 10 having an antenna 12 broadcasts a radio or television signal represented by 14 to a plurality of receivers 16a, 16b, 16c, . . . , which have respective antennas 18a, 18b, 18c, . . . . The radio or television signal typically carries a program such as news, music, drama, or commercial messages. When a listener or viewer, hereafter called a "user", at one of receivers 16a, 16b, 16c, . . . wishes to receive more information about the subject of the program, hereafter called "auxiliary information", the user issues a store command by actuating a manual input device such as key or button. As described below, each receiver has a local real time clock that indicates time and day and a readout device that indicates the station or channel to which the receiver is tuned. Responsive to the store command, the station or channel, day, and time (SDT) is recorded in a memory at the receiver. As represented by a line 19, the recorded station, day and time (SDT) data is transmitted to a central processing station 20 with a user identification tag in one of a number of ways. For example, the SDT data could be stored on a removable memory chip that is carried or mailed to central station 20 by the listener or user. Or the SDT data could be transmitted by modem to central station 20 over a telephone line periodically in response to an interrogation command. The local real time clocks are synchronized to a master clock at central station 20, preferably through line 19. As represented by a line 21, the auxiliary information is transmitted to the particular listener or viewer requesting it in one of a number of ways described below.

Detailed Description Text (143):

FIG. 34 is a flow diagram of a method for selecting stations to be loaded into the information card. In step 1450 the user is prompted to select stations manually or automatically. If the user selects to enter the stations manually, then the user selects from a displayed menu the station call letters or the frequency or channels of the participating stations for programming the information card as shown in step 1452. If the user selects automatic programming of the information card, then in step 1454 the user is prompted for a location such as a city or a default can be made to the user's city as listed in the user's address. Then in step 1456 the user is prompted to select TV/AM or FM. Then in step 1458 the user is prompted to select a programming category such as classical, news, or sports. In step 1459, the user is prompted to enter a cable ID number, which can be used for accessing a cable channel map, as described above. Then in step 1460 the AIM generates the stations for programming the information card. In step 1462 the AIM accesses station information for the selected or general stations, assigns stations to information card keys by rank, and writes the table of keys versus station identification to the information card. Then in step 1464 the AIM prints paper inserts for identifying keys on the keyboards and then in step 1466 the user can slide the inserts into the plastic sheets covering the keyboards on the information card 1010. For a two sided information card, each insert includes a side ID, such as A or B corresponding to an ID identifying each side of the information card.

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L4: Entry 27 of 27

File: USPT

Apr 6, 1999

DOCUMENT-IDENTIFIER: US 5892900 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Systems and methods for secure transaction management and electronic rights protection

Brief Summary Text (228):

support smart card implementations of the present invention in the form of portable electronic appliances, including cards that can be employed as secure credit, banking, and/or money cards. A feature of the present invention is the use of portable VDEs as transaction cards at retail and other establishments, wherein such cards can "dock" with an establishment terminal that has a VDE secure sub-system and/or an online connection to a VDE secure and/or otherwise secure and compatible subsystem, such as a "trusted" financial clearinghouse (e.g., VISA, Mastercard). The VDE card and the terminal (and/or online connection) can securely exchange information related to a transaction, with credit and/or electronic currency being transferred to a merchant and/or clearinghouse and transaction information flowing back to the card. Such a card can be used for transaction activities of all sorts. A docking station, such as a PCMCIA connector on an electronic appliance, such as a personal computer, can receive a consumer's VDE card at home. Such a station/card combination can be used for on-line transactions in the same manner as a VDE installation that is permanently installed in such an electronic appliance. The card can be used as an "electronic wallet" and contain electronic currency as well as credit provided by a clearinghouse. The card can act as a convergence point for financial activities of a consumer regarding many, if not all, merchant, banking, and on-line financial transactions, including supporting home banking activities. A consumer can receive his paycheck and/or investment earnings and/or "authentic" VDE content container secured detailed information on such receipts, through on-line connections. A user can send digital currency to another party with a VDE arrangement, including giving away such currency. A VDE card can retain details of transactions in a highly secure and database organized fashion so that financially related information is both consolidated and very easily retrieved and/or analyzed. Because of the VDE security, including use of effective encryption, authentication, digital signaturing, and secure database structures, the records contained within a VDE card arrangement may be accepted as valid transaction records for government and/or corporate recordkeeping requirements. In some embodiments of the present invention a VDE card may employ docking station and/or electronic appliance storage means and/or share other VDE arrangement means local to said appliance and/or available across a network, to augment the information storage capacity of the VDE card, by for example, storing dated, and/or archived, backup information. Taxes relating to some or all of an individual's financial activities may be automatically computed based on "authentic" information securely stored and available to said VDE card. Said information may be stored in said card, in said docking station, in an associated electronic appliance, and/or other device operatively attached thereto, and/or remotely, such as at a remote server site. A card's data, e.g. transaction history, can be backed up to an individual's personal computer or other electronic appliance and such an appliance may have an integrated VDE installation of its own. A current transaction, recent transactions (for redundancy), or all or other selected card data may be backed up to a remote backup

repository, such a VDE compatible repository at a financial clearinghouse, during each or periodic docking for a financial transaction and/or information communication such as a user/merchant transaction. Backing up at least the current transaction during a connection with another party's VDE installation (for example a VDE installation that is also on a financial or general purpose electronic network), by posting transaction information to a remote clearinghouse and/or bank, can ensure that sufficient backup is conducted to enable complete reconstruction of VDE card internal information in the event of a card failure or loss.

Brief Summary Text (275):

VDE agreements support evolving ("living") electronic agreement arrangements that can be modified by current and/or new participants through very simple to sophisticated "negotiations" between newly proposed content control information interacting with control information already in place and/or by negotiation between concurrently proposed content control information submitted by a plurality of parties. A given model may be asynchronously and progressively modified over time in accordance with existing senior rules and such modification may be applied to all, to classes of, and/or to specific content, and/or to classes and/or specific users and/or user nodes. A given piece of content may be subject to different control information at different times or places of handling, depending on the evolution of its content control information (and/or on differing, applicable VDE installation content control information). The evolution of control information can occur during the passing along of one or more VDE control information containing objects, that is control information may be modified at one or more points along a chain of control information handling, so long as such modification is allowed. As a result, VDE managed content may have different control information applied at both different "locations" in a chain of content handling and at similar locations in differing chains of the handling of such content. Such different application of control information may also result from content control information specifying that a certain party or group of parties shall be subject to content control information that differs from another party or group of parties. For example, content control information for a given piece of content may be stipulated as senior information and therefore not changeable, might be put in place by a content creator and might stipulate that national distributors of a given piece of their content may be permitted to make 100,000 copies per calendar quarter, so long as such copies are provided to boni fide end-users, but may pass only a single copy of such content to a local retailers and the control information limits such a retailer to making no more than 1,000 copies per month for retail sales to end-users. In addition, for example, an end-user of such content might be limited by the same content control information to making three copies of such content, one for each of three different computers he or she uses (one desktop computer at work, one for a desktop computer at home, and one for a portable computer).

Detailed Description Text (95):

"Rights operating system" 602 in this example can work with many different types of appliances 600. For example, it can work with large mainframe computers, "minicomputers" and "microcomputers" such as personal computers and portable computing devices. It can also work in control boxes on the top of television sets, small portable "pagers," desktop radios, stereo sound systems, telephones, telephone switches, or any other electronic appliance. This ability to work on big appliances as well as little appliances is called "scalable." A "scalable" operating system 602 means that there can be a standardized interface across many different appliances performing a wide variety of tasks.

Detailed Description Text (123):

In the preferred embodiment, SPU 500 includes a real time clock circuit ("RTC") 528 that serves as a reliable, tamper resistant time base for the SPU. RTC 528 keeps track of time of day and date (e.g., month, day and year) in the preferred embodiment, and thus may comprise a combination calendar and clock. A reliable time base is important for implementing time based usage metering methods, "time aged

decryption keys," and other time based SPU functions.

Detailed Description Text (302):

ROS 602 is scalable. Many portions of ROS 602 control structures and kernel(s) are easily portable to various host platforms without recompilation. Any control structure may be distributed (or redistributed) if a granting authority permits this type of activity. The executable references within ROS 602 are portable within a target platform. Different instances of ROS 602 may execute the references using different resources. For example, one instance of ROS 602 may perform a task using an SPU 500, while another instance of ROS 602 might perform the same task using a host processing environment running in protected memory that is emulating an SPU in software. ROS 602 control information is similarly portable; in many cases the event processing structures may be passed between machines and host platforms as easily as between cooperative processors in a single computer. Appliances with different levels of usage and/or resources available for ROS 602 functions may implement those functions in very different ways. Some services may be omitted entirely if insufficient resources exist. As described elsewhere, ROS 602 "knows" what services are available, and how to proceed based on any given event. Not all events may be processable if resources are missing or inadequate.

Detailed Description Text (801):

Traveling objects can also be used to facilitate "moving" an object from one electronic appliance 600 to another. A user could move a traveling object, with its incorporated one or more permission records 808 from a desktop computer, for example, to his notebook computer. A traveling object might register its user within itself and thereafter only be useable by that one user. A traveling object might maintain separate budget information, one for the basic distribution budget record, and another for the "active" distribution budget record of the registered user. In this way, the object could be copied and passed to another potential user, and then could be a portable object for that user.

Detailed Description Text (1295):

FIG. 62 shows an example implementation of key convolution in the preferred embodiment. Key convolution may be performed using a combination of a site ID 2821 and the high-order bits of the RTC 528 to yield a site-unique value "V" that is time-dependent on a large scale (e.g., hours or days). This value "V" may be used as the key for an encryption process 2871 that transforms a convolution seed value 2861 into a "current convolution key" 2862. The seed value 2861 may be a universe-wide or group-wide shared secret value, and may be stored in secure key storage (e.g., protected memory within PPE 650). The seed value 2861 is installed during the manufacturing process and may be updated occasionally by a VDE administrator. There may be a plurality of seed values 2861 corresponding to different sets of objects 300.

Detailed Description Text (1298):

The time component for input to the key convolution function may be derived from RTC 528 (care being taken to ensure that slight differences in RTC synchronization between VDE electronic appliances will not cause different electronic appliances to use different time components). Different portions of the RTC 528 output may be used to provide keys with different valid durations, or some tolerance can be built into the process to try several different key values. For example, a "time granularity" parameter can be adjusted to provide time tolerance in terms of days, weeks, or any other time period. As one example, if the "time granularity" is set to 2 days, and the tolerance is  $\pm .2$  days, then three real-time input values can be tried as input to the convolution algorithm. Each of the resulting key values may be tried to determine which of the possible keys is actually used. In this example, the keys will have only a 4 day life span.

Detailed Description Text (1299):

FIG. 63 shows how an appropriate convoluted key may be picked in order to

compensate for skew between the user's RTC 528 and the producer's RTC 528. A sequence of convolution keys 2862(a-e) may be generated by using different input values 2881(a-e), each derived from the site ID 2821 and the RTC 528 value plus or minus a differential (e.g., -2 days, -1 days, no delta, +1 days, +2 days). The convolution steps 2871(a-e) are used to generate the sequence of keys 2862(a-e).

Detailed Description Text (1686):

Electronic appliance 600 provided by the present invention may be portable. FIG. 71 shows one example of a portable electronic appliance 2600. Portable appliance 2600 may include a portable housing 2602 that may be about the size of a credit card in one example. Housing 2602 may connect to the outside world through, for example, an electrical connector 2604 having one or more electrical contact pins (not shown). Connector 2604 may electrically connect an external bus interface 2606 internal to housing 2602 to a mating connector 2604a of a host system 2608. External bus interface 2606 may, for example, comprise a PCMCIA (or other standard) bus interface to allow portable appliance 2600 to interface with and communicate over a bus 2607 of host system 2608. Host 2608 may, for example, be almost any device imaginable, such as a computer, a pay telephone, another VDE electronic appliance 600, a television, an arcade video game, or a washing machine, to name a few examples.

Detailed Description Text (1703):

In one example embodiment, portable appliance 2600 may have the form factor of a "smart card" (although a "smart card" form factor may provide certain advantages, housing 2602 may have the same or different form factor as "conventional" smart cards). Alternatively, such a portable electronic appliance 2600 may, for example, be packaged in a PCMCIA card configuration (or the like) which is currently becoming quite popular on personal computers and is predicted to become common for desk-top computing devices and Personal Digital Assistants. One advantageous form factor for the portable electronic appliance housing 2602 may be, for example, a Type 1, 2, or 3 PCMCIA card (or other derivations) having credit card or somewhat larger dimensions. Such a form factor is conveniently portable, and may be insertable into a wide array of computers and consumer appliances, as well as receptacles at commercial establishments such as retail establishments and banks, and at public communications points, such as telephone or other telecommunication "booths."

Detailed Description Text (1704):

Housing 2602 may be insertable into and removable from a port, slot or other receptacle provided by host 2608 so as to be physically (or otherwise operatively) connected to a computer or other electronic appliance. The portable appliance connector 2604 may be configured to allow easy removability so that appliance 2600 may be moved to another computer or other electronic appliance at a different location for a physical connection or other operative connection with that other device.

Detailed Description Text (1705):

Portable electronic appliance 2600 may provide a valuable and relatively simple means for a user to move permissions and methods between their (compatible) various electronic appliances 600, such as between a notebook computer, a desktop computer and an office computer. It could also be used, for example, to allow a consumer to visit a next door neighbor and allow that neighbor to watch a movie that the consumer had acquired a license to view, or perhaps to listen to an audio record on a large capacity optical disk that the consumer had licensed for unlimited plays.

Detailed Description Text (1710):

Portable appliance 2600 may, if desired, maintain for a consumer a portable electronic history. The portable history can be, for example, moved to an electronic "dock" or other receptacle, in or operatively connected to, a computer or other consumer host appliance 2608. Host appliance 2608 could be, for example,



an electronic organizer that has control logic at least in part in the form of a microcomputer and that stores information in an organized manner, e.g., according to tax and/or other transaction categories (such as type of use or activity). By use of this arrangement, the consumer no longer has to maintain receipts or otherwise manually track transactions but nevertheless can maintain an electronic, highly secure audit trail of transactions and transaction descriptions. The transaction descriptions may, for example, securely include the user's digital signature, and optionally, the service or goods provider's digital signature.

Detailed Description Text (1711):

When a portable appliance 2600 is "docked" to a host 2608 such as a personal computer or other electronic appliance (such as an electronic organizer), the portable appliance 2600 could communicate interim audit information to the host. In one embodiment, this information could be read, directly or indirectly, into a computer or electronic organizer money and/or tax management program (for example, Quicken or Microsoft Money and/or Turbo Tax and/or Andrew Tobias' Managing Your Money). This automation of receipt management would be an enormous boon to consumers, since the management and maintenance of receipts is difficult and time-consuming, receipts are often lost or forgotten, and the detail from credit card billings is often wholly inadequate for billing and reimbursement purposes since credit card billings normally don't provide sufficient data on the purchased items or significant transaction parameters.

Detailed Description Text (1713):

For example, a host 2608 receptacle for receiving and/or attaching to portable appliance 2600 could be incorporated into or operatively connected to, a retail or other commercial establishment terminal. The host terminal 2608 could be operated by either a commercial establishment employee or by the portable appliance 2600 holder. It could be used to, for example, input specific keyboard and/or voice input specific information such as who was taken to dinner, why something was purchased, or the category that the information should be attached to. Information could then be automatically "parsed" and routed into securely maintained (for example, encrypted) appropriate database management records within portable appliance 2600. Said "parsing" and routing would be securely controlled by VDE secure subsystem processes and could, for example, be based on category information entered in by the user and/or based on class of establishment and/or type (category) of expenditure information (or other use). Categorization can be provided by the retail establishment, for example, by securely communicating electronic category information as a portion, for example, of electronic receipt information or alternatively by printing a hard copy receipt using printer 2624. This process of categorization may take place in the portable appliance 2600 or, alternatively, it could be performed by the retail establishment and periodically "rolled-up" and communicated to the portable appliance 2600 holder.

Detailed Description Text (1717):

As mentioned above, portable appliance 2600 may communicate from time to time with other electronic appliances 600 such as, for example, a VDE administrator. Communication during a portable appliance 2600 usage session may result from internally stored parameters dictating that the connection should take place during that current session (or next or other session) of use of the portable appliance. The portable appliance 600 can carry information concerning a real-time date or window of time or duration of time that will, when appropriate, require the communication to take place (e.g., perhaps before the transaction or other process which has been contemplated by the user for that session or during it or immediately following it). Such a communication can be accomplished quickly, and could be a secure, VDE two-way communication during which information is communicated to a central information handler. Certain other information may be communicated to the portable appliance 2600 and/or the computer or other electronic appliance to which the portable appliance 2600 has been connected. Such communicated other information can enable or prevent a contemplated process from

proceeding, and/or make the portable appliance 2600, at least in part, unusable or useable. Information communicated to the portable appliance 2600 could include one or more modifications to permissions and methods, such as a resetting or increasing of one or more budgets, adding or withdrawing certain permissions, etc.

Detailed Description Text (1724):

Portable appliance 2600 financial and tax processes could involve template mechanisms described elsewhere herein. While such an electronic credit and/or currency management capability would be particularly interesting if managed at least in part, through the use of a portable appliance 2600, credit and/or currency transfer and similar features would also be applicable for non-portable VDE electronic appliance 600's connected to or installed within a computer or other electronic device.

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